

P3-15

General Algebra

- equations
- binary nr's
- nature of roots
- exponents & Surds
- Logs
- Complex nr's
- Manipulation of formulas. {Get the letter they ask alone}

• Equations

* Linear

{ x on 1 side
nr's other
side of = }

* Quadratic

{ - factorise
trinominal }

- use formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

* Surds

{ get $\sqrt{\quad}$ on left
everything else
on right
Square both
sides...
Solve for x }

* Exponential

→ Get base
nr's the
same

→ if there
are $\sqrt{\quad}$
remember
inside
outside

* logs (b.t.s)

bottom = back

$$\log_x a = m$$

$$x^m = a$$

* Simultaneous

- out of 1
- into 2
- into 3